

# INDEX FOR TECHNICAL NEWS BULLETIN, 1929

A	Page
Absorption of clay brick	3
Acidity of paper	146
Addressing machines, paper stencils for	44
Aircraft instruments, damping liquids for	76
Aircraft, radio developments applied to	77
unidirectional beacon for	1
Airplane engine ignition shielding	70
Airplane engine testing, present status of	9
Airplane engines, commercial, type testing of	100
Airplane, radio equipped	19
Alcohol, amyl, isometric, optically active	73
Alloys, liquid shrinkage of	13
American Dental Association, cooperative research work	12
American Gage Design Committee, meeting of	97
American Physical Society, meeting of	42
American Society for Testing Materials' cement reference laboratory	93
Amyl alcohols, isometric, optically active	73
Aqueous solutions, hot, as cooling media	87
Arsenic, spectrum of	69
Atomic dimension, relationship between optical rotation and	73
Automobiles, power loss in	76
B	
Beacon, unidirectional radio, for aircraft	1
Beacons, radio marker	108
Bearings	73
Blended fuels	53
Boiler plugs, increasing reliability of	88
Brick, clay, absorption of	3
compressive and transverse strength of	25
sand lime, freezing tests on	67
strength of	25
strength, relation of, to masonry strength	78
walls, clay, compressive strength of	89
Bricks, insulating, thermal expansion of	40
Broadcasting stations, testing of piezo oscillators for	19
Bromine, spectrum of	69
Builders' template hardware, commercial standard for	96
Building and plumbing code tabulation	80
Building construction, November, 1928	96
August, 1929	6
statistics and economics of	68
Bulk of paper, measurement of	68
Bursting strength tester, variation in	2
C	
Cast stone	26
Cellulose from sugar-cane	86
in paper, determination of	99
structure formulas	73
Cement, Portland, reference laboratory	55
Ceramic silicates, decomposition of	93
Ceramic Society of England, visit of	33
China clay, English	41
China ware testing machine	121
	56

	Page
Chlorine, spectrum of	51, 69
Chrome tanned leather, tensile strength of	24
Chromium plated laboratory weights	23
Circles, precision, graduation of	85
City planning and zoning	112
Clay bodies, burned, change of volume during use of	57
Clay brick, absorption of	3
Clay brick walls, compressive strength of	89
Clay, China, English	121
Clay slips, control of, by use of electrolytes	39
Clays, abrasives action of, on dyes	89
china, colloidal content of	2
English china, coefficient of expansion of	33
fire, study of	79
Code tabulation, building and plumbing	80
Coils and spirals, formulas for calculation of inductance of	77
Commercial airplane engine testing, present status of	9
Commercial airplane engines, type testing of	100
Commercial standard for brass pipe nipples	7
builders' template hardware	96
record and printing papers	98
Commercial Standards Monthly, announcement of	49
Commercial weighing and measuring equipment, specifications and tolerances for	10
Concrete, diatomaceous silica as admixture in	4, 16
Consistency measuring instruments for calcined gypsum	17
Construction activities, July, 1929	90
August, 1929	96
September, 1929	112
October, 1929	122
Cooling media, hot aqueous solutions as	87
Course indicator, vibrating reed	116
Course-shift indicator for double modulation type radiobeacon	77
Cutting fluids, more efficient use of	104
D	
Damping liquids for aircraft instruments	76
Dental Association, American, cooperation with	12
Diatomaceous silica as admixture in concrete	4, 16
Dies for clay extrusion machines	89
Dies, hollow ware, design factors of	110
Directive radiobeacon system	116
Directory of governmental testing laboratories	58
Dyed textiles, fading of	45
E	
Electrical circuits and equipment, protection of, against lightning	108
Electrical Safety Code, National, application of	21
Electrical units, new basis for	115
Electrolytes, use of, in control of clay slips	39
Electroplating researches at Bureau of Standards	43
Engine performance, automobile	76
Engines, airplane, commercial, type testing of	100

	Page	L	Page
English china clay investigation.....	121	Laboratories, directory of governmental testing.....	58
English china clays, coefficient of expansion of.....	33	Lathe tools, testing with shallow cuts at high speed.....	65
F		Laundries, winter damage in.....	30
Fading of dyed textiles.....	45, 81	Leather, rigging, specification for.....	119
Felts, roofing, experimental production of.....	69	Leathers, chrome and vegetable tanned, tensile strengths of.....	24
Fiber strength of wood poles.....	119	prevention of mold growths on.....	86
Fiber wall board.....	110	Ledger paper, cooperative development of permanent.....	30
Films, photographic, safeguarding storage of.....	65	Light, Waidner-Burgess standard of.....	107
Fire-hazard tests of jute.....	79	Lightning, protection of electrical circuits and equipment against.....	108
Fire-hazard tests of wooden laboratory table.....	53	investigation of losses from.....	63
Fire resistance of hollow load-bearing wall tile.....	15	Lime, new soundness test for.....	34
Fire resistance of plaster partitions.....	108	Lime plaster, panel tests of.....	5
Fire-resistance tests of building materials and construction.....	41	Liquids, damping, for aircraft instruments.....	76
Flames, hydrogen and carbon monoxide in.....	42	Lubricating oil for knitting machines.....	120
Floor tile, rubber.....	111	Lubrication, fundamental research on.....	73
Fuels, blended.....	53	M	
Fusible tin boiler plugs, increasing reliability of.....	88	Machine-shop practice, more efficient use of cutting fluids in.....	104
G		Manufacturers, willing-to-certify.....	6
Gage blocks, measurement of, by Zeiss interferometer.....	96	Masonry strength, effect of brick strength on.....	78
Gas-meter tests, present status of.....	11	Metals, spotting of plated or finished.....	54
Gas meters, orifice, for large volumes.....	11	Meters, orifice, for measuring large volumes of gas.....	106
Gas, natural, gasoline content of.....	52	Milk-bottle caps, tabs for.....	45
orifice meters for measuring large volumes of.....	106	Mixer for rubber.....	1
Gasoline content of natural gas, new method for determination of.....	52	Mold growths on leathers, prevention of.....	86
Gasoline, natural, volatility of.....	53	N	
revised specification for.....	103	National Electrical Safety Code, application of.....	21
Glasses, special window, effect of ultraviolet radiation upon.....	116	National Screw Thread Commission, meeting of.....	97
Glazed fit, fundamental study of.....	18	Natural gas, gasoline content of.....	52
Governmental testing laboratories, directory of.....	58	Nipples, brass pipe, commercial standard for.....	7
Graduation of precision circles.....	85	O	
Guns, identification of.....	61	Oil for knitting machines.....	120
Gypsum, calcined, consistency measuring instruments for.....	72	Optical rotation, relationship between atomic dimension and.....	73
H		Orifice-meter tests, present status of.....	11
Hardware, builders' template, commercial standard for.....	96	Orifice meters for large volumes of gas.....	11, 106
High-speed steel, testing lathe tools with light cuts.....	65	P	
Hollow-ware dies, design factors of.....	110	Paint for street-designation signs.....	87, 111
Horsepower correction for atmospheric humidity.....	76	Paint on wood panels, accelerated test for.....	87
House survey, small.....	81	Paints, artificial weathering of.....	118
Humidity, effect of, on old weights.....	38	Paper, acidity of.....	54
I		cellulose determinations.....	99
Identification of typewriters, guns, and bullets.....	61	ledger, cooperative development of permanent.....	30
Ignition shielding, airplane engine.....	70	measurement of bulk of.....	68
Indicator, course-shift, for double modulation type radiobeacon.....	77	stencils for addressing machines.....	44
Inductance of coils and spirals, comparison of formulas for calculation of.....	77	Paper Technical Association, visit of.....	111
Instruments, aircraft, damping liquids for.....	76	Paper tester, variables in.....	2
Insulating bricks, thermal expansion of.....	96	Paper-testing standards.....	29
Interferometer, Zeiss, for measuring gage blocks.....	96	Paper towels, deterioration of.....	86
International Technical Consulting Committee on Radio Communication.....	85	Papers, permanence of.....	118
Invoice form, simplified.....	7	record and printing, standards for sheathing, properties of.....	98
Iodine, spectrum of.....	69	P. C. E. determinations, equipment for.....	109
J		Piezoelectric oscillators for broadcasting stations, testing of.....	19
Jute, fire-hazard tests of.....	79	Pipe lines, protective coatings for.....	44
K		Pipe nipples, brass, commercial standard for.....	7
Keene's cement, tests of.....	40	Pipettes, new instrument for testing.....	37
Knitting machines, lubricating oil for.....	120	Plaster, lime, panel tests of.....	5
Krypton, spectrum of.....	69	Plaster partitions, fire resistance of.....	108
		Platinum sponge, preparation of very pure.....	106
		plumbing-code tabulation.....	80
		Poles, wood, fire strength of.....	119
		Portland-cement reference laboratory.....	55
		Power loss in automobiles.....	76

	Page		Page
Preservation of publications.....	82	Steels, rail, effect of service on endurance properties of.....	32
Preservative treatments for stone.....	94	Stone, cast.....	26
Protective coatings for pipe lines.....	44	preservative treatment for.....	94
Publications, preservation of.....	82	Stormer viscometer.....	104
R		Street-designation signs, paint for.....	87
Radiation, solar, measurement of ultra-violet in.....	107	Sugar cane, cellulose from.....	86
Radio Communication, International Technical Consulting Committee on.....	85	Sun checking of rubber.....	111
Radio developments applied to aircraft.....	77	T	
Radio-equipped airplane.....	19	Table, wooden laboratory, fire-hazard test of.....	53
Radio-marker beacons.....	108	Textiles, fading of, in daylight and in carbon arc light.....	81
Radio range, visual.....	77	Thermal expansion of bricks for insulating purposes.....	40
Radio-signal transmissions of standard frequencies, March to July, 1929.....	22	Thermal expansion of spindles.....	121
July to December, 1929.....	58	Tile, load-bearing wall, fire resistance of.....	15
Radio beacon, course-shift indicator for.....	77	Tire equipment, letter circular on.....	68
directive.....	77	Towels, paper, deterioration of.....	86
system, directive.....	116	Tracing cloth, transparency of, to ultra-violet light.....	30
unidirectional, for aircraft.....	1	Twenty-Second National Conference on Weights and Measures.....	49
Rail steels, effect of service on endurance properties of.....	32	Typewriters, identification of.....	61
Reference laboratory for Portland cement.....	55	U	
Refractories, investigation of.....	26	Ultra-violet radiation, effect of, upon special window glasses.....	116
Rigging leather, specification for.....	119	Ultra-violet solar radiation.....	107
Roofing felts, experimental production of.....	69	Ultra-violet transparency of tracing cloth.....	30
Rotation, optical, relationship between atomic dimension and.....	73	Unidirectional radiobeacon for aircraft.....	1
Rubber floor tile.....	111	Utility commission engineers, State conference of.....	51
mixer for.....	1	V	
sponge.....	119	Vapor lock, vapor pressure and.....	120
sun checking of.....	111	Vegetable-tanned leather, tensile strength of.....	24
testing, importance of temperature and humidity control in.....	14	Vibrating reed course indicator.....	116
S		Viscometers, Stormer and other rotation.....	104
Safety Code, National Electrical, application of.....	21	Viscosity samples, standard.....	27, 34
Sagger investigation.....	17, 95	Volatility of natural gasoline and blended fuels.....	53
Sand-lime brick, freezing tests on.....	67	W	
San Francisco branch laboratory, enlargement of.....	91	Waidner-Burgess standard of light.....	107
Scales, repair of heavy-capacity.....	38	Wall boards, fiber.....	110
Sheathing papers, properties of.....	80	Wall paper, commercial standard for.....	44
Shrinkage, liquid, of alloys.....	13	Wall tile, load-bearing, fire resistance of.....	15
Signs, street, paint for.....	111	Walls, clay brick, compressive strength of.....	89
Silica, diatomaceous, as admixture in concrete.....	4, 16	Waterproofing compounds for concrete.....	39
Silicates, ceramic, modified method for decomposition of.....	33	Weathering of paint.....	118
Silk, weighting on, determination of.....	99	Weighting and measuring equipment, commercial, specifications and tolerances for.....	10
Simplified invoice form.....	7	Weighting on silk, determination of.....	99
Softening-point determination, equipment for.....	109	Weights and Measures, Twenty-Second National Conference on.....	38, 49
Soil-corrosion studies, second progress report on.....	88	Weights, laboratory, chromium plated.....	23
Solar radiation, ultra-violet.....	107	variation of old, with humidity.....	38
Specifications and tolerances for commercial weighing and measuring equipment.....	10	Willing-to-certify manufacturers.....	6, 46
Spectra of chlorine, bromine, iodine, krypton, xenon, and arsenic.....	69	Winter damage in laundries.....	30
Spectrum of chlorine.....	51	Wood fibers, quality of purified.....	23
Spinel thermal expansion of.....	121	Wood panels, accelerated test for paint on.....	87
Spirals wound with wire of large cross section, comparison of formulas for calculation of inductance of.....	77	Wood poles, fiber strength of.....	119
Sponge rubber.....	119	X	
Spotting of plated or finished metals.....	54	Xenon, spectrum of.....	69
Stainless oil for knitting machines.....	120	Xylose factory in operation.....	34
Standard frequency radio transmissions, March to July, 1929.....	22	Z	
July to December, 1929.....	58	Zeiss interferometer for measuring gage blocks.....	96
Standard samples (February, 1929).....	13	Zoned municipalities, number of.....	96
(March, 1929).....	26	Zoning, city planning and.....	112
(April, 1929).....	46		
Standard viscosity samples.....	27, 34		
State utility commission engineers, conference of.....	46, 51		



